

## **Schemes Employing Mobile Communications**

### **Field of the Invention**

1. The present invention relates to a system, method, computer program, data structure and apparatus for implementing a customer loyalty, reward or competition scheme using mobile communications terminals.

### **Background of the Invention**

2. In conventional loyalty schemes, a customer is awarded points for carrying out transactions with participating parties. The points can be accumulated and exchanged for rewards. In one example of a generic store loyalty scheme, a customer account is automatically credited with points according to the amount of money spent at the store and/or based on the purchase of specified items. The points can be exchanged for a discount on subsequent purchases at the store or for goods on sale at the store or available on order. In another example of a brand loyalty scheme, vouchers or tokens are issued with the purchase of branded goods or services, and may be redeemed with the manufacturer or retailer in exchange for goods, cash, services or entry into a competition. Various other examples are known to those skilled in the art and to the general public.

3. Loyalty schemes may also be administered electronically over a communications network: for example, internet-based loyalty schemes such as Beenz™, administered by BeenzCom, Inc., and Clickmiles™, administered by Netcentives Inc. and purportedly described in US 5,774,870 and 6,009,412.

4. However, a problem associated with electronic loyalty schemes, including Internet-based schemes and store schemes, is that the user must undergo a registration process before participating in the scheme. The registration process is thought to be necessary to create a unique customer identity, and also to collect marketing information, which is often the ultimate aim of a loyalty scheme. The registration process is nevertheless burdensome on the customer, particularly because it takes place before the customer is entitled to any reward for the scheme.

5. Loyalty schemes based on physical tokens do not generally require pre-registration, but are cumbersome and inflexible. Moreover, the administrator of the loyalty scheme has no means of interacting with the customer until he or she redeems the tokens.

6. In some terrestrial cellular communications networks, a pre-payment method has been employed in which users purchase a voucher having a face value and carrying a code, which is revealed after purchase. The user enters the code and sends it to a number printed on the voucher so as to credit the user's account by the face value of the voucher. However, the user's account is simply used to pay for calls made by the user and cannot be redeemed for prizes when the total reaches a certain threshold; at the most, a different tariff is applied depending on the face value of the vouchers purchased. Hence, this method is not suitable for and is not intended for implementing any kind of reward or loyalty scheme.

7. In conventional competition schemes, users submit their personal details, such as a name, address or contact number, in the hope of being selected at random to win a prize. However, users are often unwilling to submit these details solely for the prospect of winning a prize.

### **Summary of the Invention**

8. In accordance with an embodiment of the present invention, a loyalty scheme is provided in which a user who purchases a product or service is provided with a token code. The user enters a token code in a communications terminal, which transmits the token code over a communications network to a server. The server causes a value associated with the token code to be added to the user's account.

9. In one more specific embodiment, the communications terminal receives a message informing the user of the total value accumulated in the user's account: this message may be sent in response to the user sending a token code, in response to the total value exceeding a threshold at which the value may be redeemed, or in response to a message from the user, for example.

10. In accordance with another more specific embodiment of the invention, if the accumulated value in the user's account exceeds a predetermined threshold, the user receives a message at the communications terminal containing a

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question. The user enters an answer to the question into the communications terminal. If the answer is correct, a bonus value is added to the customer account.

11. In another more specific embodiment, the communications terminal is connected to a network which automatically transmits a prestored terminal or user identity code. This identity code is used as an identifier to create and update the user's account. Messages may be addressed to the user by means of the identity code. The messages may include a password which can be used during a subsequent registration process in which the user provides user details which are then associated with the user's customer account and/or during a redemption process in which a value stored against the customer's account is redeemed, for example for goods, services, money or competition entry.

12. Preferably, the communication terminal is a wireless communications terminal. Advantageously, the wireless communications terminal can be identified automatically by the wireless communications network(s) with which it is registered, or the wireless communication terminal automatically transmits an identity code, and the identification code is forwarded to a server. An additional or alternative advantage of a wireless communications terminal is that it is likely to be available to the user at the point of purchase or use of the goods or services purchased; hence, although a voucher number may initially be provided in physical form, it is easily transferred into electronic form at the wireless communications terminal.

In another embodiment of the present invention, a competition scheme is provided in which a competition entry code is broadcast. Competition entrants enter the code into their mobile terminals and send it as a message to an address which accompanies the broadcast. A database of competition entrants is set up using unique identifiers which are sent by the mobile terminals. The received codes are first checked for validity before the unique identifiers are added to the database. One or more winners are selected at random from the database and a password is sent to the mobile terminal of each winner. The winners then log on to a website using their password to collect their prize.

13. Embodiments of the invention include: one or more servers connected or connectable to the communications network and arranged to implement the scheme or schemes described above; a computer program for execution by the

one or more servers in order to implement the scheme; a data structure stored by the one or more servers in order to implement the scheme; a carrier carrying the computer program; a carrier carrying the data structure; and a signal transmitted from or to the communications terminal in order to implement the scheme.

### **Brief Description of the Drawings**

14. Specific embodiments of the present invention will now be described with reference to the accompanying drawings, in which:
15. Figure 1 is a schematic diagram of a system architecture in an embodiment of the present invention;
16. Figures 2a to 2c are diagrams of different processes performed in the embodiment;
17. Figure 3 is a flow diagram of an account value information process in the embodiment;
18. Figure 4 is a flow diagram of a bonus question process in the embodiment;
19. Figure 5 is a flow diagram of a retrospective registration process in the embodiment;
20. Figure 6 is a diagram of different processes involved in an alternative embodiment of the present invention;
21. Figure 7 is a flow diagram of a competition entry process in the alternative embodiment; and
22. Figure 8 is a flow diagram of a competition winner notification process in the alternative embodiment.

### **Detailed Description of Preferred Embodiments**

23. In an embodiment of the present invention, a system implements a loyalty scheme that combines a voucher based loyalty scheme with the messaging functionality of a mobile terminal.
24. In the embodiment, the user buys a product including a voucher which is concealed at the time of purchase, for example within the product packaging. Printed on the voucher is a value expressed as a number of loyalty points, a voucher number, a telephone number, and instructions on how to use the

voucher. Following the instructions, the user enters the voucher number into the mobile terminal as a text message and sends the text message to the telephone number given on the voucher.

25. In response, the user receives a text message confirming the value of the voucher number and the total number of points in the user's loyalty account.

26. For example, the user who has not previously used the loyalty scheme purchases a first product containing a voucher worth 100 points, carrying a voucher number N1. The user enters the number N1 as a text message and sends it to the telephone number printed on the voucher. In response, the user receives a text message welcoming him to the loyalty scheme, and confirming the voucher value of 100 points and the account total of 100 points.

27. The user then buys a second product containing a voucher worth 200 points, carrying a voucher number N2. The user enters the number N2 as a text message and sends it to the telephone number printed on the voucher – this may be the same number or a different number to that used for the first product. In response, the user receives a message confirming the voucher value of 200 points and the account total of 300 points.

28. If the account total reaches a predetermined threshold, the confirmation message may offer the user the opportunity to earn bonus points (e.g. 500 points) for answering a multiple choice question contained in the message. The question may be a general knowledge question, market research or brand-related question. The user sends a text message in reply indicating one of the multiple-choice answers. If the answer is correct, the user receives a message congratulating them and confirming the new account total (e.g. 800 points). If the answer is incorrect, the user receives a text message in commiseration, explaining that there will be another opportunity to gain bonus points when the next threshold is reached.

29. The account total may reach a value which can be redeemed to collect a prize. The user receives a text message offering the prize, explaining the registration requirements and including a password which has been uniquely generated for that user.

30. To collect the prize, the user must provide registration details. To register online, the users accesses a loyalty scheme web site and logs in using his mobile

telephone number and the password. The web site then generates a form which requires the user's contact information and answers to market research questions. The user can then choose to redeem the number of points required for a prize, or to continue accumulating points towards a more valuable prize.

31. The user may alternatively register offline by calling or writing to a customer service center, supplying the telephone number and password, and answering the form questions which are asked over the telephone or supplied by mail on a printed form.

32. The customer service department of the loyalty scheme operator processes the user's contact information and sends the prize by mail or courier. The market research data is stored in a database and may be used for targeted marketing directed at the user or groups of users.

33. The system uses the mobile phone number as a user identifier. The mobile phone number is appended automatically to all text messages sent by the mobile terminal and can therefore be used to set up and increment a user's account even before registration. This removes the conventional registration barrier for interactive promotions. Users who are unwilling to provide registration details merely for the prospect of winning prizes are much more likely to provide those details once they know they have won a prize.

34. The mobile phone number need not be permanently associated with a particular mobile terminal, but may be stored in a removable Subscriber Identity Module (SIM) which can be transferred between mobile terminals. Hence, the mobile phone number can be envisaged as a user identifier as well as an identifier of a particular mobile phone; this is particularly true where the use of the SIM is protected by a password known only to the user.

35. The system uses a password as a security reference; the mobile telephone number itself is not secure, and is likely to be distributed widely by the user. The password is received by the user terminal associated with the phone number and may therefore be kept secure by the user. Once the password has been used, it cannot be reused to redeem points from the user's account.

36. One possible technical implementation of an embodiment of the loyalty scheme will now be described. As shown in Figure 1, the system on which the loyalty scheme is implemented comprises a plurality of mobile terminals MT

able to communicate using an SMS (Short Message Service) protocol via a wireless mobile network MN to a messaging center MC. The messaging center MC is able to communicate over the Internet using the Hypertext Transfer Protocol (HTTP) with a host server HS, which accesses an account database AD, a question database, a product database PD and a voucher database VD using Java Database Connectivity (JDBC) protocols.

37. The mobile terminals MT may be mobile telephones with SMS text messaging functions. However, it is not essential that the mobile terminals have telephony functions in addition to text messaging functions. Messaging or paging protocols other than SMS may be used.

38. The mobile network MN may be a digital terrestrial cellular network such as a GSM (Groupe Spéciale Mobile) network which supports SMS protocols. Alternative data transmission protocols may be used, such HSCSD (High Speed Circuit Switched Data) or GPRS (General Packet Radio Service), over suitably enabled networks.

39. The messaging center MC may be a Virtuacom™ messaging center, which acts as a gateway between the mobile network MN and the host server HS and translates SMS messages from the mobile terminals MT to HTTP requests to the host server HS. The messaging center is connected to the host server HS via a network such as the Internet.

40. The host server HS runs application software which manages user accounts, bonus questions and registration via a website. These functions may be hosted by separate applications running on separate servers connected to a network. Each application may be load-balanced across several servers.

41. The account database AD stores user account information and passwords, stores the state of any question sessions with each user, and archives records of completed transactions on user accounts. The voucher database VD stores details of valid voucher numbers and their values. The databases may be hosted on separate servers from each other and from the host server HS, connected to a common network.

42. Different processes performed by the system will now be described in detail with reference to Figures 2a to 2c.

43. In process A, which is further illustrated in Figure 3, the user collects (A10) loyalty points by purchasing a product (A20). The product has been manufactured at a production plant PP from which the voucher numbers and values of vouchers of manufactured products are submitted (A5) to the voucher database VD, where they are stored with respective associated flags to indicate whether each voucher has been redeemed.
44. The user opens the product packaging and reads (A15) the number of the voucher contained therein, and the telephone number printed on the voucher. The user then enters (A25) the voucher number into the mobile terminal MT as a text message (A30) and sends (A35) the text message over the mobile network MN as an SMS message using the telephone number on the voucher. The mobile terminal MT includes its own telephone number in the SMS message: this is a standard feature of the SMS protocol which allows the recipient of an SMS message to send a reply.
45. The messaging center MC (A40) receives the SMS message and sends it to the host server 8, where the voucher number is checked (A42) against the voucher database VD. If the voucher number exists in the voucher database and is not flagged as having been redeemed, the host server 8 credits (A43) the value of the voucher to a user account indexed by the telephone number of the mobile terminal MT on the account database AD. The value of the voucher may be stored as a separate field on the voucher database VD, or may be derived from the voucher number by an algorithm executed by the host server 8.
46. The host server 8 retrieves the updated account total of the user account from the account database AD and composes (A45) an SMS message (A50) which is forwarded to the messaging center MC for transmission (A55) to the mobile terminal MT. The SMS message confirms the value of the voucher and the updated total account value. The user reads (A60) the SMS message on the mobile terminal MT.
47. Process B is an alternative to process A in a case where the voucher number is invalid. The user collects (B10) an invalid voucher – for example, a voucher which has already been used. The user views (B15) the invalid voucher (B20) and composes (B25) an SMS message (B30) comprising the invalid voucher number. The user sends (B35) the SMS message to the messaging center



(B40), which forwards the message to the host server HS. The host server HS checks the voucher number against the voucher database VD and finds that the number is invalid: either the number is not present at all in the database VD, or it is present but flagged as already used. The host server HS composes (B45) an error message (B50) and sends (B55) it to the messaging center MC for transmission to the user. The user reads (B60) the error message and is informed that the voucher number is not valid. In this way, fraud by reuse of voucher numbers is prevented. Fraud by guessing voucher numbers is prevented by using a voucher number format with a large degree of redundancy, so that only a small number of possible voucher numbers are actually valid at any one time.

48. In process C, which is further illustrated in Figure 4, a bonus question function is activated when a user's account value in the account database AD (C10) is incremented so as to equal or exceed a predetermined threshold, or one of a progressive series of thresholds. This may occur as a result of a valid voucher number being submitted in process A, or may be caused by the host server HS incrementing the total in response to some other condition, such as the user providing registration details. The host server HS compares the updated total value with the predetermined threshold to determine (C15) whether the threshold has been met. If it has, the host server HS randomly selects a multiple-choice question from the question database QD and composes a message addressed to the telephone number of the corresponding user, as stored on the account database AD. The message also includes the value of the bonus question, i.e. the number of points which will be added to the user's account if the answer is correct. The value may be stored on the question database QD or may be determined by the host server HS according to the level of the predetermined threshold, for example. The message is sent to the messaging center (C20) which composes (C25) an SMS message (C30) and sends it (C35) to the user. The user reads (C40) the message and enters (C45) a letter (C50) corresponding to one of the multiple-choice answers to the question. The user sends (C55) the letter as an SMS message, which is received at the messaging center MC (C60) and forwarded to the host server HS. The host server HS looks up the state of the question session for that user according to the telephone number supplied in the SMS message and determines whether the given answer is the correct one by

looking up the correct answer in the question database QD. If the answer is correct, the host server HS adds (C62) the value of the bonus question to the user's account on the account database AD and composes a message to the mobile terminal confirming that the answer is correct. The message is forwarded to the messaging center MC which converts (C65) the message to an SMS message (C70) which is sent (C75) to the mobile terminal MT. The user reads the message (C80).

49. Process D is an alternative to process C in the case where the user gets the answer to the bonus question wrong. The process proceeds in the same way as process C, with similar process steps carrying the same reference numeral but preceded by 'D', until step D50 where the user enters the wrong answer to the multiple choice question. The user sends (D55) an SMS message containing the wrong answer, which is received at the messaging center MC (D60) and forwarded to the host server HS. The host server HS looks up the state of the question session for that user according to the telephone number supplied in the SMS message and determines whether the given answer is the correct one by looking up the correct answer in the question database QD. In this case, the answer is wrong, so no points are added to the user's account. The host server HS composes a message to the mobile terminal MT stating that the answer is wrong. The message is forwarded to the messaging center MC which converts (D65) the message to an SMS message (D70) which is sent (D75) to the mobile terminal MT. The user reads the message (D80).

50. In an alternative embodiment, the bonus question is not a multiple-choice question, but a request for information from the user. The requested information may concern the user's lifestyle or opinions. In this case, bonus points are added to the user's account if any answer at all is received, although some analysis of the answer may first be carried out to determine whether it is a meaningful or plausible answer before the bonus points are credited and the information is stored on a database of marketing information.

51. In a process E, further illustrated in Figure 5, a prize offer is activated when the total value of a user's account equals or exceeds a second predetermined threshold, or one of a progressive series of second thresholds, which may or may not have the same value as that at which the bonus question

function is activated. Preferably, the second threshold is higher than the lowest threshold at which the bonus question function is activated, by a difference equal to the value of the bonus question so that answering the bonus question correctly will activate the prize function.

52. The host server HS detects (E15) from the account database AD (E10) that the value of a user's account has met or exceeded the second threshold. This may occur as a result of a valid voucher number being submitted in process A, or may be caused by the host server HS incrementing the total in response to some other condition, such as the user providing registration details.

53. The host server HS then generates a unique password, which may be a function of the date and/or time and the user's telephone number, and stores (E15) the password in the account database AD, indexed against the user's account. The password is included (E17) in a message addressed to the user, which asks the user to register in order to collect a prize, and gives a URL (Uniform Resource Locator) and postal address for registration. The message is passed to the messaging center MC (E20), where an SMS message containing the message is composed (E25) into an SMS message (E30) which is sent to the user. The user reads (E35) the message and may initiate a registration process F.

54. In the registration process F10, the user may register online by accessing (F15) an account management website AW using a web-enabled computer C connected to the Internet using a modem M or other device appropriate to the user's network. The computer C receives a web page (F20) requesting input of the user's telephone number and password. The web page is provided by a web server having access to the account database AD, from which the web server checks the input password against the password stored against the user account indexed by the input telephone number. If the input telephone number is recognized and the input password matches the stored password (F25), the web server provides a form (F30) which the user fills in with the requested personal details and marketing information, and submits (F35) to the web server. The web server stores the personal details against the user's account in the account database AD and adds the marketing information to a marketing information database. Further, the web server sends a web page to the computer C displaying the user's account total of loyalty points and indicating what prizes are available

and what prizes require more points than the account total. The user may select an option to redeem some or all of the points for a prize, in which case the web server generates an order to a customer service center to deliver the prize to the user.

55. Alternatively, in process G, the user may choose to continue accumulating points and may log on later (G10) using the same telephone number and password (G20) in order to check the current account total and prize requirements (G40) and optionally to redeem the points for a more valuable prize.

56. In process H, the user wishes to check his account (H10) but logs on with the wrong phone number or password (H20). The web server checks the input phone number and password against the account database AD but does not find a match (H25). The web server sends to the computer C a web page (H30) including an error message and a request to reattempt login.

57. Since the loyalty scheme uses existing communications infrastructure such as the Internet and wireless messaging networks, it can be implemented by setting up the host server HS, the various databases and the messaging center MC using suitable hardware and software. The software may be recorded on a carrier such as a floppy disc or CD-ROM for loading onto the hardware, or may be downloaded via a network such as the Internet. Further technical details of these components in one specific embodiment will now be described.

58. The messaging center MC may be a Virtuacom™ messaging center which runs Virtuacom™ information on demand (IOD) scripts named **reward** and **question**, placed in the ACOM scripts directory.

59. The **reward** script performs the following actions:

- i. Get the user's phone number.
- ii. Get the user's voucher code.
- iii. Send an HTTP request to the MLS Server consisting of the phone number and the voucher code, e.g.

<http://lonlab3.london.agency.com/loyalty/RewardServlet?pno=0796707070&code=A1B2>

- iv. If code is valid send a congratulations message,

including number of points won, total number of points in account, and website password (if not registered) to the user's phone.

- v. If code is not valid send an error message to the user's phone.

60. The **question** script performs the following actions:

- i. Get the user's phone number.
- ii. Get the user's answer.
- iii. Send an HTTP request to the host server consisting of the phone number and the given answer.
- iv. If the user has won send a winning message, including number of points won and total number of points in account, to the user's phone.
- v. If the user has lost send a commiseration message, including number of points left in account to the user's phone.

61. The host server HS runs the following scripts:

#### **RewardServlet Class**

The **RewardServlet** Java servlet is merely a wrapper to call the **RewardHandler** class methods – see below.

The **RewardServlet** servlet needs to be registered with the web server on the quiz server machine.

When compiling the **RewardServlet** servlet, **CLASSPATH** needs to be able to locate the **RewardHandler** class.

#### **QuestionServlet Class**

62. The **QuestionServlet** Java servlet is a wrapper to call the **QuestionHandler** class methods – see below.

63. The **QuestionServlet** needs to be registered with the web container, which may be hosted on the host server HS..

64. When compiling the **QuestionServlet** servlet, **CLASSPATH** needs to be able to locate the **QuestionHandler** class.

### **RewardHandler Class**

65. The Java class named **RewardHandler** controls the operation of user question sessions. This class is used by the **RewardServlet** servlet, and thus must be visible via **CLASSPATH** when compiling the **RewardServlet** class (see above).

The **RewardHandler** class has the following public methods:

**RewardHandler(String phone\_number, String reward\_code)** – constructor.

**String ProcessRewardCode()** - checks the validity of the given code and retrieves the code's points value. If valid, the user's **Account** balance is updated. Returns account status message.

### **QuestionHandler Class**

66. The Java class named **QuestionHandler** receives user responses to bonus questions i.e. the chance to win extra loyalty points. This class is used by the **QuestionServlet** servlet, and thus must be visible via **CLASSPATH** when compiling the **QuestionServlet** class (see above).

The **QuestionHandler** class has the following public methods:

**QuestionHandler(String phone\_number, String answer)** - constructor.

**String processAnswer()** – Checks the user's answer against existing user question sessions, identified by the

phone number. Returns a message confirming a win or lose, or error if there is no existing session for the user.

### **Account Class**

67. Instances of the Java class named **Account** represent the state of a user's account as reflected in the account database AD. Properties such as first\_name, last\_name, etc remain empty until the user registers on the web site AW and the database is updated AD. Until a user registers only the phone\_number, balance, and next\_promotion properties are used. This class is used by the **RewardHandler** class, and thus must be visible via **CLASSPATH** when compiling the **RewardHandler** class (see above).

The **Account** class has the following public methods:

**Account(String phone\_number)** - constructor. Retrieves all user details from account database AD, or creates a new account if no record exists.

**int updateAccount(int loyalty\_points)** – Adds reward points to user account and checks for threshold hits. When a user's account balance exceeds a threshold hit value a promotion or question event is triggered, and an SMS is sent to the user.

The database schema of the databases is given below.

**Table: user\_accounts**

phone_number	number(15, 0)	- user phone number [Primary Key]
user_password	varchar(10)	- password
loyalty_points	number(6,0)	- number of loyalty points
next_promotion	number(6,0)	- value of next threshold hit
first_name	varchar(50)	- user's first name
last_name	varchar(50)	- user's last name
email_address	varchar(100)	- user's email address
address_line1	varchar(100)	- first line of user's address
address_line2	varchar2(100)	- second line of user's address
address_town	varchar2(50)	- town
address_postcode	varchar2(7)	- postcode
address_county	varchar2(50)	- county/state

**Table: reward\_codes**

reward_code	varchar(15)	- reward codes. [Primary Key]
prize_code	varchar(15)	- value of the reward in loyalty points.
phone_number	number(15, 0)	- user phone number
data_redeemed	char(20)	- text representation of date/time.
code_status	char(1))	- 0 = reward not claimed; 1 = claimed.

**Table: questions**

question_id	varchar(10)	- unique question identifier.
subject	varchar(20)	- subject
question	varchar(120)	- the text of the question
answer_a	varchar(20)	- possible answer A
answer_b	varchar(20)	- possible answer B
answer_c	varchar(20)	- possible answer C
answer_d	varchar(20)	- possible answer D



correct_answer	char(1)	- correct answer, one of A, B, C or D
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**Table: promotions**

promotion_id	varchar(10)	- unique promotion identifier.
promotion_text	varchar(160)	- promotion text

**Table: threshold\_events**

points_needed	number(6, 0)	- points needed to trigger event
event_type	char(1)	- P = promotion, Q = Question
event_id	varchar(10)	- ID of promotion or question

**Table: question\_sessions**

question_id	varchar2(10)	- question identifier
phone_number	number(15, 0)	- user phone number
session_start	char(20)	- representation of session start date/time
session_end	number(15, 0)	- date/time of user response (if any) in secs
expected_answer	char(1)	- correct answer to question sent to user
session_status	char(1)	- P = pending, W = won, L = lost, A = abandoned.

**Table: products**

product_id	varchar2(10)	- unique product ID [Primary Key]
product_name	varchar2(100)	- product name
product_description	varchar2(1024)	- product description
product_category	varchar2(100)	- product section [Foreign Key]
product_cost	number(6)	- cost of product, in loyalty points

**Table: categories**

product\_category      varchar2(100)      - product type [Primary Key]

68. An alternative embodiment will now be described with reference to Figures 6 to 8, in which a code is broadcast to allow users to enter a competition using their mobile terminals, without the need to provide any registration details. The alternative embodiment uses an architecture which is similar to that shown in Figure 1 except for the content of the databases, and similar components are given the same reference numerals.

69. A competition organizer CO generates a code which will be unique to the current competition, and records (J5) the code in a code database CD, together with associated competition information such as a closing date for entries. The competition organizer broadcasts (J7) details (J20) of the competition, including the code and a telephone number, as well as instructions for entry into the competition. The code may be displayed on posters, or broadcast on television or radio, for example. Following the instructions, the user composes (J25) and sends (J35) a message (J30) containing the code to the specified telephone number. The messaging centre MC and host server HS receive the message and check (J45) the code for validity against the code database CD. If the code is present and the current date doesn't exceed the closing date (J40), the user's telephone number, which was transmitted automatically with the message (J30), is added (J50) as a record to a database of entrants ED. The host server HS composes (J55) a confirmation message (J60) confirming entry to the competition, and sends it (J65) via the messaging centre MC. The user reads (J70) the message received on the mobile terminal (MT). If the code is invalid, the user receives a message to that effect.

70. Once the closing date has expired, one or more winning entries are selected (K15) randomly or pseudo-randomly from the database of entrants ED. For each winning entry, the host server HS generates (K17) a unique password and composes (K25) a message (K30) confirming that a prize has been won and asking the user to claim a prize using the password and a specified URL or postal address. The winner may register (L10) online by accessing (L15) a competition website CW using a computer C and modem M connected to the Internet. The user logs on (L20) by entering the phone number of the mobile terminal MT and

the password. If the password is recognised (L25) by comparing the logon details with the winning entrants' details and passwords stored on the entrants database ED, the competition website generates a form (L30) for the winner to enter details, such as an address for delivery of the prize. The user submits (L35) the completed form and the competition website displays a confirmation message (L40), stating that the prize is on its way. If the logon details are not recognised, a web page will be displayed to that effect.

71. Optionally, a commiseration message may be sent to the unsuccessful entrants after the closing date. The entrants database ED may also be used for marketing purposes, for example by sending promotional messages to the numbers stored.

72. The above embodiments are described purely by way of example and may be varied without departing from the spirit and scope of the present invention.

73. In particular, the present invention is not limited to the use of SMS for messaging. Any messaging system is suitable in which the address of the sending terminal may be determined automatically. It is not essential that the terminal sends its phone number or address, if the address can be determined by the wireless network and passed on to the messaging centre; this could be done using an accurate location of the mobile terminal, for example. Some other identifier of the mobile terminal may be used, and may be translated into an address using a look-up table.

The voucher or code may be provided in a format which can be read automatically by a mobile terminal equipped with a suitable reading device, such as a magnetic swipe card, a bar code, or an RF transponder, for example.

74. The functions of the messaging centre MC and the host server HS may be combined, or distributed over different hardware devices. Likewise, the databases may be stored on the same storage device or distributed across different storage devices.